

MILITARY SPECIFICATION

LOUDSPEAKER, PERMANENT MAGNET (UNENCASED, 3-INCH AND 4-INCH DIAMETER CONE,  
2-WATT; FUNGUS-, GUNBLAST-, AND IMMERSION-RESISTANT),  
TYPE LS-445/U, M12606-01, and M12606-02

This amendment forms a part of Military Specification MIL-L-12606D,  
dated 25 October 1979, and is approved for use by all Departments  
and Agencies of the Department of Defense.

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Paragraph 4.7.7, delete and substitute.

"4.7.7 Harmonic distortion (see 3.4.6). The loudspeaker shall be mounted in its appropriate test cabinet. A constant voltage having a rms value of  $4.00 \pm 1$  volts at discrete frequencies of 400, 2,000 and 4,000 Hz  $\pm 10\%$  shall be applied to the voice coil terminals of loudspeaker type LS-445/U and M12606-02. A constant voltage having a rms value of  $4.00 \pm .1$  volts at discrete frequencies of 500, 2,000 and 4,000 Hz  $\pm 10\%$  shall be applied to the voice coil terminals of loudspeaker type M12606-01. Harmonic distortion shall be determined by one of the methods specified in 4.7.7.1 or 4.7.7.2."

Paragraph 4.7.7.2, line 3, following "determined by the following formula", insert:

$$\text{"Percent distortion} = 100 \times \sqrt{\frac{p_2^2 + p_3^2 + \dots + p_n^2}{p_1^2 + p_2^2 + p_3^2 + \dots + p_n^2}} \text{"}$$

Paragraph 4.7.8, line 1, delete "mounted in a test cabinet (figure 4)" and substitute "mounted in its appropriate test cabinet".

Custodians  
Army - CR  
Navy - EC  
Air Force - 85

Review activities:  
Army - AR  
Navy -  
Air Force - 99  
DLA - ES

User activities:  
Army - AR, AV  
Navy - MC

Preparing activity  
Army - CR

Agent:  
DLA - ES

(Project 5965-0173)

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